

ENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PT-1087 PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 00/ 25610	International filing date (day/month/year) 19/09/2000	(Earliest) Priority Date (day/month/year) 28/09/1999
Applicant INCYTE GENOMICS, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☒ contained in the international application in written form.

☒ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☒ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

HUMAN SECRETORY MOLECULES

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Claims 1-19 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: Invention 1, claims 1-19 (all partially)

An isolated polynucleotide selected from the group consisting of a polynucleotide consisting of, or comprising the polynucleotide sequence of SEQ ID NO:1, homologs and variants, complementary polynucleotides, fragments and RNA equivalents of said polynucleotide. A composition for the detection of the expression of secretory polynucleotides comprising a polynucleotide as said, and methods of detecting said polynucleotide. A recombinant polynucleotide comprising a polynucleotide as said, operably linked to a promoter sequence, a cell and a transgenic organism comprising said recombinant polynucleotide, and a method for producing a secretory polypeptide by expressing said recombinant polynucleotide. A purified secretory polypeptide encoded by a polynucleotide comprising the polynucleotide sequence of SEQ ID NO:1, and an antibody binding to said polypeptide. A method of identifying a test compound which binds to said polypeptide. A microarray comprising a polynucleotide comprising at least 60 contiguous nucleotides of a polynucleotide as said, and a method for generating a transcript image using said microarray. A method for screening a compound for effectiveness in altering expression of a polynucleotide as said, and a method for assessing toxicity of a test compound using a probe comprising at least 20 contiguous nucleotide of a polynucleotide as said.

2. Claims: Inventions 2-63, claims 1-19 (all partially)

As invention 1, but concerning SEQ ID NOs 2-63, respectively.

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International Application No.

US 00/25610

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C07K14/705 C12Q1/68 G01N33/50 A01K67/027

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K C12Q G01N A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EM_EST [Online] EMBL ID HSA29735, AC AA029735, 20 August 1996 (1996-08-20) HILLIER L ET AL.: "ze95c03.r1 Soares fetal heart NbHH19W Homo sapiens cDNA cTone IMAGE:366724 5', mRNA sequence." XP002162283 Note: 97.3 % nt sequence identity with SEQ ID NO:1 in 669 nt overlap. the whole document</p> <p style="text-align: center;">--- -/--</p>	1-19

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

8 March 2001

Date of mailing of the international search report

1 5. 06. 01

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EM_EST [Online] EMBL ID AW009420, AC AW009420, 13 September 1999 (1999-09-13) STRAUSBERG R: "ws82d11.x1 NCI CGAP Co3 Homo sapiens cDNA clone IMAGE:2504469 3', mRNA sequence." XP002162284 Note: 99.6 % nt sequence identity with SEQ ID NO:1 in 547 nt overlap. the whole document</p> <p>---</p>	1-19
A	<p>WO 99 03990 A (FLORENCE KIMBERLY A ;HUMAN GENOME SCIENCES INC (US); FENG PING (US) 28 January 1999 (1999-01-28) page 2, line 1-8 claims 1-23</p> <p>---</p>	1-19
A	<p>WO 99 18204 A (KATO SEISHI ;PROTEGENE INC (JP); SEKINE SHINGO (JP); SAGAMI CHEM R) 15 April 1999 (1999-04-15) page 3, line 1-17 claims 1-6</p> <p>---</p>	1-19
A	<p>WO 99 31236 A (BOUGUELERET LYDIE ;GENSET SA (FR); DUCLERT AYMERIC (FR); DUMAS MIL) 24 June 1999 (1999-06-24) page 3, line 23 -page 10, line 15 claims 1-20</p> <p>-----</p>	1-19

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9903990 A	28-01-1999	AU 8404598 A EP 1027430 A AU 8571198 A EP 1012260 A WO 9903982 A	10-02-1999 16-08-2000 10-02-1999 28-06-2000 28-01-1999
WO 9918204 A	15-04-1999	AU 9283398 A EP 1040188 A	27-04-1999 04-10-2000
WO 9931236 A	24-06-1999	AU 1049199 A AU 1503099 A EP 1029045 A EP 1037977 A WO 9925825 A AU 2294499 A EP 1053318 A WO 9940189 A	07-06-1999 05-07-1999 23-08-2000 27-09-2000 27-05-1999 23-08-1999 22-11-2000 12-08-1999